

Refine Search

Search Results -

Terms	Documents
(dditp or dideoxyinosine)	107

Database:

- US Pre-Grant Publication Full-Text Database
- US Patents Full-Text Database
- US OCR Full-Text Database
- EPO Abstracts Database
- JPO Abstracts Database
- Derwent World Patents Index
- IBM Technical Disclosure Bulletins

Search:

L7

Refine Search

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Search History

DATE: Thursday, July 01, 2004    [Printable Copy](#)    [Create Case](#)

<u>Set Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u> result set
side by side			
<i>DB=EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L7</u>	(dditp or dideoxyinosine)	107	<u>L7</u>
<u>L6</u>	(dditp or dideoxyinosine) and electrophor\$8	0	<u>L6</u>
<u>L5</u>	(dditp or dideoxyinosine) and (ditp or deoxyinosine)	5	<u>L5</u>
<u>L4</u>	(dditp or dideoxyinosine) and electrophor\$8	0	<u>L4</u>
<u>L3</u>	(dditp or dideoxyinosine) and (ditp or deoxyinosine) and electrophor\$8	0	<u>L3</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L2</u>	(dditp or dideoxyinosine) and (ditp or deoxyinosine) and electrophor\$8	49	<u>L2</u>
<u>L1</u>	(dditp or dideoxyinosine) and (ditp or deoxyinosine) and electrphor\$8	1	<u>L1</u>

END OF SEARCH HISTORY

## Refine Search

### Search Results -

Terms	Documents
(dditp or (dideoxyinosine adj triphosphate)) and ((deoxyinosine adj phosphate) or ditp)	2

Database:

US Pre-Grant Publication Full-Text Database  
 US Patents Full-Text Database  
 US OCR Full-Text Database  
 EPO Abstracts Database  
 JPO Abstracts Database  
 Derwent World Patents Index  
 IBM Technical Disclosure Bulletins

Search:

L6

Refine Search

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### Search History

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<u>Set</u> <u>Name</u> side by side	<u>Query</u>	<u>Hit</u> <u>Count</u>	<u>Set</u> <u>Name</u> result set
<i>DB=EPAB,JPAB,DWPI; PLUR=YES; OP=OR</i>			
<u>L6</u>	(dditp or (dideoxyinosine adj triphosphate)) and ((deoxyinosine adj phosphate) or ditp)	2	<u>L6</u>
<u>L5</u>	l1 not L3	0	<u>L5</u>
<i>DB=USPT; PLUR=YES; OP=OR</i>			
<u>L4</u>	l1 not L3	30	<u>L4</u>
<u>L3</u>	l1 not l2	6	<u>L3</u>
<u>L2</u>	l1 and electrophor\$8	30	<u>L2</u>
<u>L1</u>	(dditp or (dideoxyinosine adj triphosphate)) and ((deoxyinosine adj phosphate) or ditp)	36	<u>L1</u>

END OF SEARCH HISTORY

=> s (dditp or dideoxyinosine) and (dttp or deoxyinosine) and electrophor?  
11 DDITP  
713 DIDEOXYINOSINE  
2074 DTTP  
708 DEOXYINOSINE  
252340 ELECTROPHOR?  
L1 2 (DDITP OR DIDEOXYINOSINE) AND (DTTP OR DEOXYINOSINE) AND ELECTRO  
PHOR?

=> d 11 1 2 bib ab

L1 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1998:129251 CAPLUS  
DN 128:254429  
TI Substrate specificity of human recombinant mitochondrial deoxyguanosine  
kinase with cytostatic and antiviral purine and pyrimidine analogs  
AU Sjoberg, Anita Herrstrom; Wang, Liya; Eriksson, Staffan  
CS Department of Veterinary Medical Chemistry, Biomedical Center, Swedish  
University of Agricultural Sciences, Uppsala, Swed.  
SO Molecular Pharmacology (1998), 53(2), 270-273  
CODEN: MOPMA3; ISSN: 0026-895X  
PB Williams & Wilkins  
DT Journal  
LA English  
AB Deoxyguanosine kinase (dGK) is an enzyme responsible for the  
phosphorylation of purine deoxynucleosides in mitochondria of mammalian  
cells. Its role in activation of pharmacol. used nucleoside analogs is  
not well understood, because of the low levels of dGK found in tissue  
exts. and its inactivation during purification. The cDNA for dGK was recently  
cloned and expressed in Escherichia coli. Here we present an improved  
procedure for expression and purification of a highly active form of human  
recombinant dGK. The enzyme showed a broad substrate specificity toward  
natural purine and pyrimidine deoxynucleosides as well as toward important  
nucleoside analogs. The Km and Vmax values for deoxyguanosine,  
**deoxyinosine**, deoxyadenosine, and deoxycytidine were 4, 13, 460,  
330 µM and 43, 330, 430 and 60 nmol/min/mg of protein, resp.  
Antileukemic purine analogs such as arabinosyl guanine,  
2-chloro-2'-deoxyadenosine, 2-chloro-2'-arabino-fluoro-2'-deoxyadenosine,  
and 2-fluoro-arabinosyl-adenine were phosphorylated as efficiently by dGK  
as the natural nucleoside substrates. This is the first report in which  
2-fluoro-arabinosyl-adenine and 2-chloro-2'-arabino-fluoro-2'-deoxy-  
adenosine were shown to be good substrates for dGK. The antiviral analogs  
**dideoxyinosine** and arabinosyl adenine also showed significant  
activity with dGK, as did several pyrimidine analogs (e.g., the cytostatic  
drugs 5-fluoro-2'-deoxycytidine and difluorodeoxycytidine). The broad  
specificity of dGK described here may change our understanding of the  
mechanisms responsible for the efficacy and mitochondrial toxicity of  
several nucleoside analogs.

RE.CNT 23 THERE ARE 23 CITED REFERENCES AVAILABLE FOR THIS RECORD  
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L1 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN  
AN 1996:366902 CAPLUS  
DN 125:28928  
TI The phosphotransferase activity of cytosolic 5'-nucleotidase; a purine  
analog phosphorylating enzyme  
AU Banditelli, Stefania; Baiocchi, Cristina; Pesì, Rossana; Allegrini,  
Simone; Turriani, Maura; Ipata, Piero Luigi; Camici, Marcella; Tozzi,  
Maria Grazia  
CS Dipartimento Fisiologia Biochimica, Università Pisa, Pisa, 56100, Italy  
SO International Journal of Biochemistry & Cell Biology (1996), 28(6),  
711-720

CODEN: IJBBFU; ISSN: 1357-2725

PB Elsevier

DT Journal

LA English

AB Cytosolic 5'-nucleotidase is involved in the phosphorylation of several purine nucleoside analogs, used as antiviral and chemotherapeutic agents. To assess its role in the mechanisms of activation and inactivation of purine prodrugs, it is essential to study the regulation of both hydrolase and phosphotransferase activities of the enzyme. Using a zone capillary **electrophoresis** apparatus, we were able to sep. substrates and products of the reactions catalyzed by cytosolic 5'-nucleotidase. The method overcomes the frequent unavailability of radiolabeled substrates, and allows the influence of possible effectors and/or exptl. conditions on both enzyme activities to be evaluated simultaneously. Results showed that the enzyme was able to phosphorylate several nucleosides and nucleoside analogs with the following efficiency: inosine and 2'-**deoxyinosine** > 2',3'-**dideoxyinosine** > 6-chloropurineriboside > 6-hydroxylaminepurine riboside > 2,6-diaminopurine riboside > adenosine > cytidine > deoxycoformycin > 2'-deoxyadenosine. This is the first report of deoxycoformycin phosphorylation catalyzed by a 5'-nucleotidase purified from eukaryotic cells. The optimum pH for nucleoside monophosphate hydrolysis was 6.5, slightly more acidic than the optimum pH for the transfer of the phosphate, which was 7.2. Finally, the presence of a suitable substrate for the phosphotransferase activity of cytosolic 5'-nucleotidase caused a stimulation of the rate of formation of the nucleoside. The results suggest the requirements for phosphorylation of nucleoside analogs are a purine ring and the presence of an electroneg. group in the 6-position. The stimulation of the rate of nucleoside monophosphate disappearance exerted by the phosphate acceptor suggests that the hydrolysis of the phosphoenzyme intermediate is the rate-limiting step of the process.

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=> d his

(FILE 'HOME' ENTERED AT 13:36:19 ON 01 JUL 2004)

FILE 'CAPLUS' ENTERED AT 13:36:28 ON 01 JUL 2004

L1	380 S BAND# (2A) COMPRESS?
L2	11 S DDITP
L3	0 S L1 AND L2
L4	713 S DIDEOXYINOSINE
L5	0 S L1 AND L4
L6	9 S DIDEOXYINOSINE (W) TRIPHOSPHATE

=>

Day : Thursday

Date: 7/1/2004  
Time: 15:59:33



**Inventor Name Search Result**

Your Search was:

Last Name = TUSNEEM  
First Name = NADEEM

Application#	Patent#	Status	Date Filed	Title	Inventor Name 2
<a href="#">60236179</a>	Not Issued	159	09/29/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	TUSNEEM, NADEEM
<a href="#">09721918</a>	Not Issued	030	11/27/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	TUSNEEM, NADEEM

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name

First Name

tusneem

nadeem

Search

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Day : Thursday

Date: 7/1/2004

Time: 16:00:10

PALM INTRANET**Inventor Name Search Result**

Your Search was:

Last Name = PRUSS

First Name = DMITRY

Application#	Patent#	Status	Date Filed	Title	Inventor Name 7
<a href="#">60402430</a>	Not Issued	159	08/09/2002	LARGE DELETIONS IN THE HUMAN BRCA1 GENE AND USES THEREOF	PRUSS, DMITRY
<a href="#">60328873</a>	Not Issued	159	10/12/2001	METHOD OF IDENTIFYING LARGE GENOMIC REARRANGEMENTS	PRUSS, DMITRY
<a href="#">60309680</a>	Not Issued	159	08/03/2001	LARGE DELETIONS IN HUMAN BRCA1 GENE AND USE THEREOF	PRUSS, DMITRY
<a href="#">60236179</a>	Not Issued	159	09/29/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	PRUSS, DMITRY
<a href="#">10457839</a>	Not Issued	030	06/09/2003	LARGE DELETIONS IN HUMAN BRCA1 GENE AND USE THEREOF	PRUSS, DMITRY
<a href="#">10272609</a>	Not Issued	030	10/15/2002	METHOD OF IDENTIFYING GENOMIC REARRANGEMENTS	PRUSS, DMITRY
<a href="#">09721918</a>	Not Issued	030	11/27/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	PRUSS, DMITRY

**Inventor Search Completed: No Records to Display.**

**Search Another: Inventor**

<b>Last Name</b>	<b>First Name</b>	
<input type="text" value="pruss"/>	<input type="text" value="dmitry"/>	<input type="button" value="Search"/>

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Day : Thursday

Date: 7/1/2004  
Time: 16:00:52



**Inventor Name Search Result**

Your Search was:

Last Name = SHEN  
First Name = MIN-JUI

Application#	Patent#	Status	Date Filed	Title	Inventor Name 5
<a href="#">60236179</a>	Not Issued	159	09/29/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	SHEN, MIN-JUI RICHARD
<a href="#">60116133</a>	Not Issued	159	01/15/1999	METHOD FOR CONTROLLING THE DISTRIBUTION OF DNA SEQUENCING TERMINATION PRODUCTS	SHEN , MIN-JUI RICHARD
<a href="#">10177727</a>	Not Issued	030	06/20/2002	MULTIPLEX NUCLEIC ACID REACTIONS	SHEN, MIN-JUI RICHARD
<a href="#">09721918</a>	Not Issued	030	11/27/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	SHEN, MIN-JUI RICHARD
<a href="#">09482565</a>	Not Issued	161	01/14/2000	METHOD FOR CONTROLLING THE DISTRIBUTION OF DNA SEQUENCING TERMINATION PRODUCTS	SHEN, MIN-JUI RICHARD

Inventor Search Completed: No Records to Display.

Search Another: Inventor

Last Name

shen

First Name

min-jui

Search

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Day : Thursday

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Time: 16:01:43

PALM INTRANET

**Inventor Name Search Result**

Your Search was:

Last Name = BHATNAGAR

First Name = SATISH

Application#	Patent#	Status	Date Filed	Title	Inventor Name 9
<u>60236179</u>	Not Issued	159	09/29/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	BHATNAGAR, SATISH K
<u>09721918</u>	Not Issued	030	11/27/2000	METHOD FOR EQUALIZING BAND INTENSITIES ON SEQUENCING GELS	BHATNAGAR, SATISH K.
<u>08891516</u>	<u>6090552</u>	150	07/11/1997	NUCLEIC ACID AMPLIFICATION OLIGONUCLEOTIDES WITH MOLECULAR ENERGY TRANSFER LABELS AND METHODS BASED THEREON	BHATNAGAR , SATISH K.
<u>08837034</u>	<u>6117635</u>	150	04/11/1997	NUCLEIC ACID AMPLIFICATION OLIGONUCLEOTIDES WITH MOLECULAR ENERGY TRANSFER LABELS AND METHODS BASED THEREON	BHATNAGAR , SATISH K.
<u>08778487</u>	<u>5866336</u>	150	01/03/1997	NUCLEIC ACID AMPLIFICATION OLIGONUCLEOTIDES WITH MOLECULAR ENERGY TRANSFER LABELS AND METHODS BASED THEREON	BHATNAGAR , SATISH K.
<u>08683667</u>	Not Issued	168	07/16/1996	METHOD FOR LABELING AND DETECTION OF GENETIC AMPLIFICATION PRODUCTS	BHATNAGAR , SATISH
<u>08472239</u>	<u>5728526</u>	250	06/07/1995	METHOD FOR ANALYZING A NUCLEOTIDE SEQUENCE AND KIT THEREFOR	BHATNAGAR , SATISH K.

<a href="#">08461823</a>	<a href="#">5593840</a>	150	06/05/1995	AMPLIFICATION OF NUCLEIC ACID SEQUENCES	BHATNAGAR , SATISH K.
<a href="#">08010433</a>	Not Issued	161	01/27/1993	METHODS FOR AMPLIFYING NUCLEIC ACID SEQUENCES	BHATNAGAR , SATISH K.

Inventor Search Completed: No Records to Display.

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Last Name

First Name

bhatnagar

satish

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